

Marion County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/28/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 21 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Marion County economy.¹

These 21 sectors have a total direct output of approximately **\$302.8 million** and support **1,221.7 jobs** in Marion County. Running the model for all 21 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Marion County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	1,221.7	22.77%	\$71,846,081	20.70%	\$302,785,186	87.22%
Indirect Effect	226.6	4.22%	\$34,096,865	9.82%	\$49,618,778	14.29%
Induced Effect	147.8	2.75%	\$9,859,529	2.84%	\$18,067,225	5.20%
Total Effect	1,596.1	29.75%	\$115,802,475	33.36%	\$370,471,189	106.72%

As shown in the above table, agriculture, food, and food processing sectors support **1,596.1 jobs**, or **29.75%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$370.5 million, roughly 106.72% of the economy.**

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 21 agriculture, food, and food processing sectors is approximately **\$115.8 million, or 33.36% of the GRP.** This indicates that personal income, business income, and taxes generated by these sectors account for **33.36% of the total economy.**

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **749.8 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Marion County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	749.8	\$114,642,614
All other crop farming	126.0	\$12,257,276
Grain farming	107.7	\$50,921,170
Wholesale trade	64.3	\$13,859,916
All other food manufacturing	55.7	\$24,927,087
Support activities for agriculture and forestry	47.7	\$20,047,431
Veterinary services	32.8	\$2,981,928
Fluid milk manufacturing	31.9	\$27,038,736
Farm machinery and equipment manufacturing	29.8	\$15,891,591
Truck transportation	21.7	\$3,101,611

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$114.6 million** to the Marion County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	749.8	\$114,642,614
Grain farming	107.7	\$50,921,170
Fluid milk manufacturing	31.9	\$27,038,736
Other animal food manufacturing	18.3	\$25,322,253
All other food manufacturing	55.7	\$24,927,087
Support activities for agriculture and forestry	47.7	\$20,047,431
Farm machinery and equipment manufacturing	29.8	\$15,891,591
Wholesale trade	64.3	\$13,859,916
Oilseed farming	9.1	\$13,076,043
All other crop farming	126.0	\$12,257,276

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Marion County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	9.1	\$13,076,043.13
Grain farming	107.7	\$50,921,169.28
Vegetable and melon farming	0.5	\$141,087.90
Greenhouse, nursery, and floriculture production	0.3	\$62,248.15
Cotton farming	0.2	\$71,259.84
All other crop farming	126.0	\$12,257,275.58
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	749.8	\$114,642,608.64
Dairy cattle and milk production	14.0	\$7,341,192.72
Poultry and egg production	1.0	\$1,060,482.86
Animal production, except cattle and poultry and eggs	13.8	\$2,345,510.01
Commercial logging	1.0	\$56,459.48
Other animal food manufacturing	18.3	\$25,322,252.27
Fluid milk manufacturing	31.9	\$27,038,734.44
Animal, except poultry, slaughtering	3.9	\$2,877,453.57
Bread and bakery product, except frozen, manufacturing	5.2	\$563,330.41
Frozen cakes and other pastries manufacturing	0.3	\$46,897.01
All other food manufacturing	55.7	\$24,927,085.88
Farm machinery and equipment manufacturing	29.8	\$15,891,591.07
All other industrial machinery manufacturing	1.4	\$515,990.26
Veterinary services	32.8	\$2,981,928.35
Landscape and horticultural services	19.0	\$644,575.24

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Marion County, the retail sector was omitted.